Right-of-Way Pest Control Test Plan Development

I.

Pest Identification		
a) <u>Bi-annuals</u>	g)	Insect – growth stage, appropriate time
b) <u>Annuals</u>		for control (thresholds)
c) <u>Perennials</u>	h)	Rodent
d) Desirable vs. Pest (selective control)	i)	Scouting/ Monitoring/ Trapping for Pests
e) Monocot	j)	Growth Regulators
f) Dicot	•,	-
Pests		
k) Ants		
Southern fire ant		3. Harvester ant
2. Red Imported fire ant (Qualified		
Applicator)		
I) <u>Cockroaches</u>		
m) Beetles		
1. Flat-head borer		5. Long-Horned Beetles
2. Palo Verde		6. Agave Weevils
3. Bark Beetles		7. Yuccas
4. Bill Bugs		
n) Pests of Public Health concern		
1. Ticks		
o) <u>Scorpions</u>		
1. Bark scorpion		
p) <u>Wasps/Bees</u>		
q) Noctuid moths/insects that come to lights/occasion	<u>nal i</u>	
1. Aphids		5. Mealy bugs
2. Whiteflies		6. False chinch bugs
3. Psyllids		7. Leaf hoppers
4. Stink bugs		
r) <u>Vertebrates</u>		2 Crown d Carrianala
1. Gophers		Ground Squirrels
Weeds		
a. Clovers		2
Black medic Burnelsuser		Annual sweet clover
2. Bur clover		
b. Mustards		2 Chanharda nuras
London rocket Mustarda (Sahara, Black, Wild)		3. Shepherds purse4. Swine cress
Mustards (Sahara, Black, Wild Padish)		4. Swille cless
Radish) c. Composites		
1. Groundsel		2 Prickly lettuce
Sow thistle		Prickly lettuce
d. Other		
1. Cheeseweed		3. Chickweed
Red Stem Filaree		4. Knotweed

e. Summer annual broadleaves 1. Spurge 7. Toadflax 2. Horseweed 8. Thistles 3. Pigweed 9. Globe Chamomile 4. Common purslane 10. Hairy Fleabane 5. Russian thistle 11. Camphorweed 6. Puncturevine f. Winter annual grass weeds 1. Hare Barley 2. Red brome g. Summer annual grass weeds 1. Goosegrass 4. Sandbur 2. Southwestern cupgrass 5. Bermudagrass 3. Crabgrasses h. Perennial weeds 1. Purple Nutsedge 6. Buffelgrass 2. Yellow Nutsedge 7. Fountaingrass 3. Kyllinga 8. Camelthorn 4. Silverleaf nightshade 9. Hogpotato 5. Johnsongrass Read and Comprehend Label and Labeling a) Safety Issues 1. Spray Drift 3. Surface Waters (lakes, rivers, 2. Run Off washes) 4. Groundwater Protection List - A.I. b) Worker Safety – PPE c) Calculate chemicals 1. Application Rates i. Site **Pests** ii. d) Types of Applications 1. Pre-emergent 2. Post-emergent Spot spray i. Spray to Wet iii. Broadcast Spray to run-off ii. iv. 3. Injection i. Stump treatment 4. Drench 6. Traps 5. Baits 7. Use of Adjuvants e) Tank Mixes f) Growth Regulators Planning and Implementing a Vegetation /Pest Management Plan a) Appropriate Product formulations b) Secondary poisoning c) Application Timing 1. Weather 2. Life Stage d) Pesticide Resistance Issues e) Monitoring after Application f) Mowing g) <u>IPM</u> h) Bio/cultural controls 1. Beneficial Insects 2. Bacillus Thuringiensis

II.

III.

IV. Laws and Rules

- a) Ground water protection reporting
 - 1. A.A.C. R3-8-505
 - i. Reporting Requirements
 - ii. Where to find the list (QA)
 - 2. QA Responsibilities

V. Equipment Types, Uses, Maintenance and Calibration

a) Nozzles

e) Backpack Sprayers

b) Pumps

f) Broadcast Sprayers

c) Hoses

g) Granular Spreaders

d) Hand Sprayers

Resources:

- Rights-of-Way Vegetation Management (Washington State University Extension);
- Weeds of California and other Western States Vol. 1 & 2 (University of California);
- Truman's Scientific Guide to Pest Management Operations Seventh Edition;
- Handbook on Pests of Community Environments in the Desert Southwest United States;
- UC IPM;
- US Forest Service Region 3 Invasive Weeds;
- Arizona Revised Statute Title 3 Chapter 20 & Arizona Administrative Code Title 3 Chapter 8 Pest Management Division; and
- National Pesticide Applicator Certification Core Manual